

# Dr. REENA M ROY

Assistant Professor



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[Scholar Link](#)

## Qualifications:

- B Tech – Electronics and Communication (Cochin University of Science and Technology)
- M. Tech – Signal Processing (University of Kerala)
- Ph. D- Biomedical Image Processing (NIT Calicut)

## Professional Experience:

- Assistant Professor, LBSITW, Trivandrum (2008-Till date)

## Recently Taught Courses:

- [Optimization Techniques](#)
- [Topics in Computer Vision](#)
- [Computer Architecture and Microcontrollers](#)
- [Microcontroller Lab](#)
- Scientific Computing Lab

## Other Responsibilities:

- DQAC Co-ordinator (September 2022-Till date)

- Staff Advisor (2022 ERE Batch)
- Lab in Charge (Microcontroller Lab)
- Member of Question Paper Setting and Scrutiny committee of B.Tech courses of APJ Abdul Kalam Technological university
- Time table co-ordinator(2023 Even Sem)

### **Important Publications:**

- **M Roy Reena and P M Ameer, "Segmentation of leukocyte by semantic segmentation model: A deep learning approach", Biomedical Signal Processing and Control, 65:102385, 2021.**
- **M Roy Reena and P M Ameer, "Localization and recognition of leukocytes in peripheral blood: A deep learning approach", Computers in Biology and Medicine, 126:104034, 2020.**
- **M Roy Reena and P M Ameer, "A content-based image retrieval system for the diagnosis of Lymphoma using blood micrographs: An incorporation of deep learning with a traditional learning approach", Computers in Biology and Medicine, 145:105463, 2022.**
- **M Roy Reena and P M Ameer, "Identification of white blood cells for the diagnosis of acute myeloid leukemia." International Journal of Imaging Systems and Technology.,Wiley Online Library, 2022.**

### **Conference/Paper Presentation:**

- Resource person – Faculty development programme [KMCT College of Engineering for Women]
- Plenary session -National conference on advances in Communication, Signal processing and Instrumentation
- Reviewer - Technical papers - Elsevier [Biomedical Signal processing and control]
- Reviewer - Technical Papers - Elsevier [Computers in Biology and Medicine]